

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-21 (cancelled)

22. (currently amended) A cycle pedal comprising:

a pedal body (1) comprising a ~~rectangular~~ horizontal plate (2) having an upper surface;

means for locking (5, 6) a cyclist's shoe (8) disposed on the upper surface;

a case (3) containing a pedal pin (4) designed to be fixed to a free end of a crank (41), the case being disposed on a longitudinal edge of the horizontal plate;

wherein the plate (2) is secured to the case (3) so that the upper surface extends beneath the pedal pin (4) along a distance (a) and a support axis (7) of the shoe on the pedal plate (2) extends in front of the pedal pin (4) along a distance (b), the support axis being defined as an axis merging with a ~~the~~ front plate ~~and passing through a metatarsus of a cyclist's big toe when said cyclist is pedalling with said cyclist's foot fitted in a cycling shoe interlocked with the cycle pedal,~~ so that the pedal support axis (7) describes a circular curve with centre ~~θ'~~ (O') and radius ~~r'~~ (r') offset downward from (a) and forward from (b) relative to a circular curve of the pedal pin

(4) with centre O, where θ' (O') is the axis of ~~the~~ a cycle bottom bracket shell and of radius $[[r]]$ r,

wherein the means for locking (5, 6) comprises:

a front interlocking mechanism (5) designed to co-operate with a front part of a clip (9) integral with a sole (10) of the cyclist's shoe (8) and,

a movable rear interlocking mechanism (6) designed to co-operate with a rear part of the clip (9) of the shoe (8), the movable rear interlocking mechanism (6) ~~being movable~~ constructed and arranged so as to move under pressure of the rear part of the clip (9) of the shoe (8) from a position called interlocked, and passing through an open position allowing to insert or remove the rear part of the clip (9) of the shoe (8), until returning to the interlocking position under stress from an elastic means (20);

wherein the front interlocking mechanism (5) comprises a stud (37) extending vertically from the upper surface of the plate (2) and a retention means (38) at an upper end of the front interlocking mechanism, said stud (37) being constructed and arranged to lodge into a V-shaped recess (39) in a lug (13) which juts out from the front part of the clip (9) of the cyclist's shoe (8), a semicircular complementary recess (40) being disposed at a bottom of said V-shaped recess, the semicircular recess having a diameter that is slightly bigger than a diameter of the stud (37).

27. (currently amended) The pedal of claim ~~26~~ 22, wherein the retention means (38) comprises a flange.

28-38. (canceled).

39. (currently amended) A cycle pedal comprising:

a pedal body comprising a plate having an upper surface;

means for locking a cyclist's shoe disposed on the upper surface;

a case containing a pedal pin for attachment to a free end of a crank, the case being disposed on an edge of the plate;

wherein the plate is secured to the case so that the upper surface extends beneath the pedal pin along a distance (a) and a support axis of the shoe on the pedal plate extends in front of the pedal pin along a distance (b), the support axis being defined as an axis merging with the front plate ~~and passing through a metatarsus of a cyclist's big toe when said cyclist is pedalling with said cyclist's foot fitted in a cycling shoe interlocked with the cycle pedal~~, so that the pedal support axis describes a circular curve with centre θ' (O') and radius r' (r') offset downward from (a) and forward from (b) relative to a circular curve of the pedal pin with centre O, where θ' (O') is the axis of the cycle bottom bracket shell and of radius r , r,

wherein the means for locking comprises:

a front interlocking mechanism designed to co-operate with a front part of a clip integral with a sole of the cyclist's shoe and,

a movable rear interlocking mechanism constructed and arranged to move in cooperation ~~designed to co-operate~~ with a rear part of the clip of the shoe;

wherein the front interlocking mechanism comprises a stud extending vertically from the upper surface of the plate and a retention means at an upper end of the front interlocking mechanism, said stud being constructed and arranged to lodge into a V-shaped recess in a lug which juts out from the front part of the clip of the cyclist's shoe, a semicircular complementary recess being disposed at a bottom of said V-shaped recess, the semicircular recess having a diameter that is slightly bigger than a diameter of the stud.

40. (previously presented) The pedal of claim 39, wherein the retention means comprises a flange.

41. (canceled).